In the Claims:

Please cancel claims 28, 30, 31, 38, 40, 41, 42, 47, and 49, without prejudice, and amend claims 32, 35, 36, 43-46 and 48 as follows:

- 1-19. (Withdrawn)
- 20 21. (Previously Canceled)
- 22 26. (Withdrawn)
- 27. (**Previously Added**) A method for identifying a compound which binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:5, the method comprising:
- a) contacting a cell expressing the polypeptide with a test compound under conditions suitable for binding; and
- b) determining whether the test compound binds to the polypeptide, thereby identifying a compound which binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:5.

- 29. (**Previously Added**) A method for identifying a compound which binds to a polypeptide consisting of the amino acid sequence of SEQ ID NO:5, the method comprising:
- a) contacting a cell expressing the polypeptide with a test compound under conditions suitable for binding; and
- b) determining whether the test compound binds to the polypeptide, thereby identifying a compound which binds to a polypeptide consisting of the amino acid sequence of SEQ ID NO:5.
 - 30. (Canceled)
 - 31. (Canceled)
- 32. (Currently Amended) The method of any one of claims 27-31 or 29, wherein binding of the test compound to the polypeptide is detected by the use of an assay for a hVR-2 activity.

- 33. (**Previously Added**) The method of claim 32, wherein said hVR-2 activity is modulation of membrane depolarization.
- 34. (**Previously Added**) The method of claim 32, wherein said hVR-2 activity is modulation of intracellular calcium levels.
- 35. (Currently Amended) The method of any one of claims 27-31 or 29, wherein said cell expressing said polypeptide is a neuronal cell.
- 36. (Currently Amended) The method of any one of claims27-31 or 29, wherein said compound modulates the activity of said polypeptide.
- 37. (**Previously Added**) A method for identifying a compound which binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:5, the method comprising:
- a) contacting a sample comprising the polypeptide with a test compound under conditions suitable for binding; and
- b) determining whether the test compound binds to the polypeptide, thereby identifying a compound which binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:5.

- 39. (**Previously Added**) A method for identifying a compound which binds to a polypeptide consisting of the amino acid sequence of SEQ ID NO:5, the method comprising:
- a) contacting a sample comprising the polypeptide with a test compound under conditions suitable for binding; and
- b) determining whether the test compound binds to the polypeptide, thereby identifying a compound which binds to a polypeptide consisting of the amino acid sequence of SEQ ID NO:5.

- 40. (Canceled)
- 41. (Canceled)
- 42. (Canceled)
- 43. (Currently Amended) The method of any one of claims 37-41, 39, 46 or 48, wherein binding of said test compound to said polypeptide is detected by the use of a direct binding assay.
- 44. (Currently Amended) The method of any one of claims 37-41, 39, 46 or 48, wherein binding of said test compound to said polypeptide is detected by the use of a competition binding assay.
- 45. (Currently Amended) The method of any one of claims 37-41, 39, 46 or 48, wherein said test compound modulates the activity of said polypeptide.
- 46. (Currently Amended) A method for identifying a compound which binds to a polypeptide that is at least 95% identical to the amino acid sequence of SEQ ID NO:5 and is capable of modulating membrane excitability in a cell, the method comprising:
- a) contacting a cell expressing the polypeptide with a test compound under conditions suitable for binding; and
- b) determining whether the test compound binds to the polypeptide, thereby identifying a compound which binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:5.

- 48. (Currently Amended) A method for identifying a compound which binds to a polypeptide that is at least 95% identical to the amino acid sequence of SEQ ID NO:5 and is capable of modulating membrane excitability in a cell, the method comprising:
- a) contacting the polypeptide with a test compound under conditions suitable for binding; and

b) determining whether the test compound binds to the polypeptide, thereby identifying a compound which binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:5.